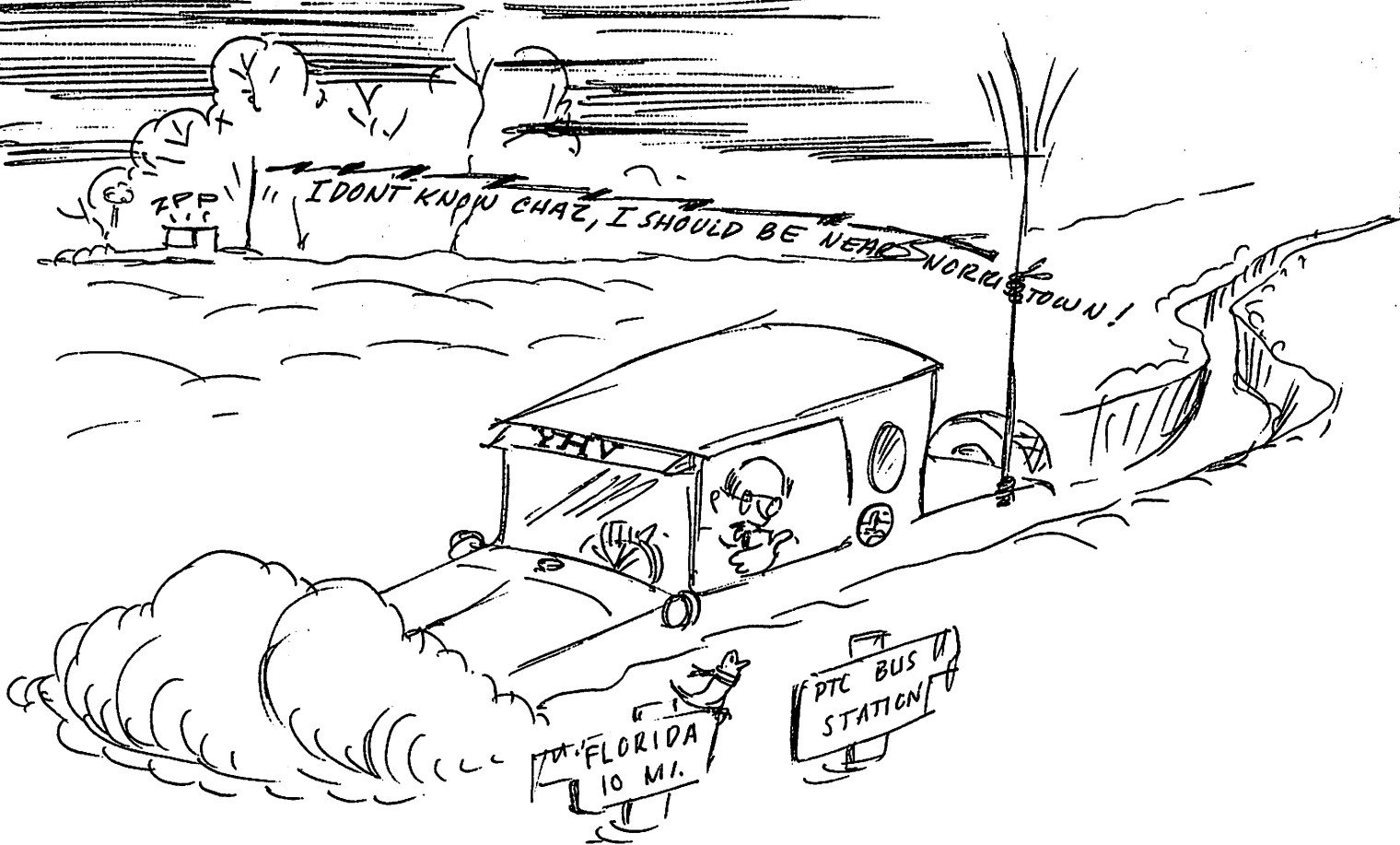
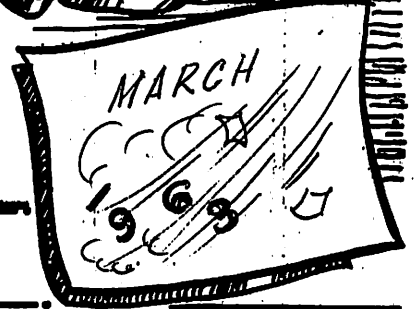




# THE BLURB

A.R.E.A. Member

**PHILMONT MOBILE RADIO CLUB INC.**



LIKE THE U.S. MAIL, PHILMONT ALWAYS  
GETS THRU! — BE SURE YOU COME  
THRU, FOR THE *Annual Freebee* AUCTION

VOLUME 13

NUMBER-3

**EDITOR**

R. G. Schmilewske, K3KUD / N Ø RUN  
528 Melody Lane  
Glenside, PA. - Telephone TU4-1884

**STAFF**

**Publisher** W3LEM  
**Art Work** 3QO167; W3YHV  
**Contributing Editors** W3ZPP; K3GNJ;  
W3UMK  
**Technical Editor** K3GNM  
**Technical Drawing** WA2RDC

**CIRCULATION AND PRINTING**

**Printer** W3PST  
**Boss Stitcher** W3VVS  
**Collator** W3QQH

The "Blurb" is published by and for the members of Phil-Mont to further the interest of Amateur Radio in general and Mobile Radio in particular. We endeavor to keep the news accurate, interesting and in a small way educational. Copying and quoting is permitted and subscriptions are gladly exchanged with other radio clubs.

**DEADLINES**

The "Blurb" is mailed on the last Monday of the month. All material for the "Blurb" must be received by the Editor, K3KUD before the 15th of the month.

**1963 CLUB OFFICERS**

**President** Charles Greenwood W3GOW  
**Vice President** Enos Bartol K3GNJ  
**Treasurer** George Weed W3MHR  
**Secretary** Joseph Elmaleh K3HLJ  
**Directors:** W3VVS (E63); W3QQH (E64);  
K3DJE (E65); W3CDY(A); W3NIP(A);  
and all 1963 Club Officers.

New members chairman: W3DSG

**NET AND NET FREQUENCIES**

**Channel 1** - 29493 kc **Channel 3** - 147.78 mc  
**Channel 2** - 29629 kc **Channel 4** - 50.7 mc  
**Orange Juice Net** Weekdays 0700 - 0730  
**Scrambled Egg Net** 0730 - 0830  
**Ten on Ten Sundays** 1000 - 1100  
**Blarney sessions anytime** All Channels  
29493 kc 0930 - 2400  
Monitored daily for the benefit of mobiles in the Philadelphia area.

**P M R C CALENDAR**  
**MEETINGS**

**Regular Meetings:** First Monday  
of each month.

**Time:** 2000 hours (8:00 p.m.)

**Place:** FRANKLIN INSTITUTE

20 & Benj. Franklin Parkway

**MID-MONTH SCHEDULE**

Mar. 13, W3EQV - Aug. 14, W3DJW  
Apr. 17, W3WNC - Sep. 18, W3HFD  
May 15, W3GOW - Oct. 16, W3AWH  
June 12, K3KUD - Nov. 13, W3ADF  
July 17, W3NIP - Dec. 18, W3MHR



" P R E Z   -   S E Z "

"A few words on leadership." What does leadership mean in terms of Phil-Mont?

It seems to me that it is simply the setting of an example, as high as each one of us can make it, in order that our Club will benefit in increased prestige. Since it is a hard fact of life that not one of us can change anyone but ourselves, volumes of rules and regulations cannot accomplish as much for Phil-Mont as the determination of each Phil-Mont member to set an example by his own actions.

W3GOW

\* \* \* \* \*

#### IT SEEMS TO ME

Writing this on the eve of another departure for Turkey, a country which has no amateur radio, I started to wonder if maybe we don't take our hobby for granted to a large extent. We complain that other services are trying to take over amateur frequencies, or are operating illegally, but what do we do to protect our interests? Operating alone is not the answer--let's flood Congress with letters requesting reciprocal licensing, and ARRL with letters expressing our opinions on the proposed changes in the licensing structure. The more we can show these people that we are interested in what is being done to us, as well as for us, the more we can hope to be permitted to enjoy our hobby as we want it, with a minimum of interference.

de K3KUD

\* \* \* \* \*

#### V H F   R O S T E R

The Editor is still awaiting the arrival of written notification from members of the VHF capabilities of their stations. We are trying to compile a roster of this information, but at the current rate of receipt of the information, it will take approximately 100 years to get the data.

\* \* \* \* \*

## CLUB NEWS AND ACTIVITIES

The following is a list of Committee Chairmen appointed by W3GOW for the coming year. Chairmen will select their own committees as necessary to accomplish the assignment. Committees are listed below only where the Chairman has given this information to the Editor.

Red Truck Committee  
W3QQH, K3GNJ, W3JYA  
W3VVS, K3KUD, K3HIE

Social Activities  
  
K3GNJ

Prize Committee  
  
W3JYA

Interclub Committee  
W3UMK

Awards Committee  
W3VVS

CD Affairs  
W3UMK

Membership Committee  
W3DSG, K3GNJ

W3TKQ Committee  
W3ADV, W3NIP, W3QQH  
W3CDY, W3AWH, W3GOW  
W3QCV, W3PBR, and  
Mr. Neathery

Program Committee  
W3CDY

---

### March Meeting

This month one of the features of the regular meeting will be the "Freebee Auction". There should be some real fine items for sale in this one due to the large number of items which have recently become available.

---

The following is a correct and current list of Club Directors with the year of expiration of term shown in the case of those who were elected. Appointees may vary from year to year since the term in that case is only one year. The "masthead" of the Blurb has also been changed to reflect the correct information. W3VVS (elected, 1963); W3QQH (Elected, 1964); K3DJE (elected 1965); W3CDY (appointed); W3NIP (appointed).

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### Antenna Committee

The antenna committee, which is a group of Phil-Monters, unofficially organized, occasionally exhibiting monkeylike tendencies, but always available to help out when the "skyhook" gives someone trouble, has been extremely busy of late. Two trips to W3ZZP, one to W3LEM and on January 26 a real big job at the residence of the late "Doc" Rose. W3QQH, OWK, GIF, DJW, VCE and K3GNJ, KDP, CEE and KUD removed all the antennas except the Telrex array which is still awaiting a buyer.

---

W3UVL reported on the Ten on Ten Net that he would do a feature article on Field Day this year with Phil-Mont as the subject. This would be a real nice bit of publicity and of course we know that Russ would do his usual excellent job.

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Don't forget to pay your 1963 dues if you haven't done so. It's later than you think. Send checks to W3MHR, Club Treasurer.

---

W3TKQ, with Nelson at the mike, did a good job of keeping up with traffic conditions on the various roads during the recent bad weather. The information reported by the mobiles was relayed for the assistance of everyone.

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The Editor has received a copy of the book "The World of Mr. Sheraton" by Ernest Henderson, WIUDY, who is President of the Sheraton Hotels. Mr. Henderson sent one of his books to each member of AREA.

\*\*\*\*\*

## CLUB NEWS AND ACTIVITIES (Continued)

### February Meeting

A very lively meeting was highlighted by a reading by W3AWH of the proposed changes to the By-Laws worked up by the Board of Directors. A limited discussion of the various changes and additions was permitted, with the general membership asked to express its opinion. Action by the membership relative to acceptance or rejection of any modifications will be taken at the March meeting.

Field Day was discussed briefly with considerable interest being shown by the members present. Further discussion and details will be worked out at a later date.

W3QQH gave a demonstration of a relay operated emergency light, dry cell powered, which he constructed and uses in his home. The light operates when the AC power fails. Jim also showed and explained the crystal controlled, single channel, transmitter-receiver combination that he built for the use of club members, who for any reason lost the use of their own fixed station rig. To obtain further details on this equipment, members should contact W3QQH. A short, but very enjoyable feature of the meeting was a discussion and demonstration by W3OWK of his "artificial voice". Al did a fine job on this and did it with considerable humor. In addition to proving that you can't keep a good man down, this talk was interesting and informative.

Attendance at this meeting was good, there being 10 visitors and about 40 members present.

\* \* \* \* \*

### INFORMATION OF INTEREST

W4IKP, Jack, is the radio operator on the Project Magnet Aircraft. The aircraft flies over many unexplored areas of the earth. Jack works SSB on 14.275mc for a fixed period out of every hour. He will be interested in making contact with anyone from Phil-Mont due to our association with the Franklin Institute. Some of the observations made in flight are for the Bartol Research Foundation (of the Franklin Institute). Keeping an ear on the frequency could result in some unusual contacts since from January 22 to March 5, 1963, the aircraft will be flying out of Uruguay and during May-June, 1963, it will be flying out of New Zealand, covering the southwest Pacific and Antarctic Oceans. We owe thanks to Dick Hecksher, Executive Vice President of the Franklin Institute for passing along the above information.

de W3CDY

\* \* \* \* \*

The National Bureau of Standards is presently constructing two new stations which will substantially increase the coverage of standard time and frequency transmissions. The new facilities are located at Fort Collins, Col., and will be in operation this year. Calls of the new transmitters will be WWVB and WWVL, both of which have been transmitting on an experimental basis for several years. WWVL will have a radiated power of 1 kw on 20kc and WWVB will radiate 7kw on 60 kc.

Time signals will offer a precision of between 1/100,000 and 1/1,000,000 of a second, depending on distance from the transmitter. Frequency stability will be on the order of 1 part in 10 billion on a global basis, in about 24 hours. The diamond shaped antenna for each station will be about 1900 feet long and 750 feet wide and will be supported on (4) 400 foot high, guyed steel towers.

\* \* \* \* \*

## IN MEMORIAM

Colonel Leroy Hauser, W4LSC, ex-W3PMD, died on February 2, 1963 at Arlington, Virginia.

A member of the Marine Corps for over 30 years, Roy was an active ham on all frequencies below 30 mc. At his request, 5 amateurs in the Glenside area met at his home in November, 1949, to investigate the possibility of forming an all mobile club. Phil-Mont was the result and Roy, as W3PMD, was elected its first president.

During and after his stay in the Philadelphia area, Roy was active in Phil-Mont activities. Members of the club will miss his presence at banquets, and his moral backing from the Washington area. He is survived by his wife Florence and a sister, Virginia.

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## LATE ADDITIONS TO THE LATE EDITION

The drawing to determine the winner of the DX-100 transmitter will be held at the March Meeting.

-----  
The following new members have been accepted by the club:  
K3HIE, Bill Clayton; K3OEJ, Art Garner; K3TKU, Jerry Cohen.  
Congratulations and welcome to all of you.

-----  
At the February Mid-Month meeting the President, W3GOW appointed the following Field Day Committee; W3YHV, Chairman; W3EQV, W3QQH, K3GNJ and K3KUD. Others will be asked to serve on this committee as the plans for Field Day progress.

-----  
The May regular meeting has been tentatively scheduled as an open meeting with any and all neighboring clubs invited. The program will be held in the Lecture Hall of the Franklin Institute and will feature the Wave Generator Tank, demonstrating various radio wave theories.

-----  
Rules for the operation of W3TKQ by qualified members of Phil-Mont after regular Institute hours have now been formulated. The complete rules will appear in next month's Blurb. W3ADV has all the information for anyone who is interested and does not wish to wait until then.

-----  
The General Electric Company, which for 10 years has sponsored the Annual Edison Award to the "Ham of the Year", has announced the discontinuance of the Award.

Giving as a reason for this action the growth of amateur radio and the complexity of services rendered, GE made the announcement through L. Berkley Davis, Chairman of the Award Council.

\*\*\*\*\*

## TID - BITS

Reading Radio Club will hold its Annual Banquet on March 30. At this time, the Editor has no more information than that, but complete details will be available for anyone interested.

-----

K3DJE reports that he will make up a new order for Phil-Mont coffee mugs if there are sufficient people interested. If you want one of these cups with the Phil-Mont Emblem, your name and call, let him know.

-----

Phil-Mont's "Red Truck" provided communication facilities from one monitor station in the RACES test on February 13, working with the Abington Township net.

-----

The following material, reprinted in part, appeared in the Mt. Airy VHF Club "Cheese Bits" -- one more CB attempt to get amateur licenses without effort, ability or real interest. Apparently, International Crystal is "crusading" for more dollars. (Ed.)

### INTERNATIONAL CRYSTAL MANUFACTURING CO., INC. OKLAHOMA CITY, OKLAHOMA

In the Matter of  
Petition to add a new  
class of license to the Amateur  
Radio Service.

1. International Crystal Manufacturing Co. Inc. of Oklahoma City, Oklahoma files herewith a petition to add a new class of license to the Amateur Radio Service and allocate a group of frequencies for use by ~~this~~ group.
2. With the expanded use of the Citizen Radio Service a group has appeared with extreme interest in the operational hobby aspect of radio communications. The regulations of Part 19 do not permit the general type operation desired by this group. It is sincerely felt that the keen interest and ability of this group can be guided and further educated by providing a service under which they can pursue their hobby.
3. Such a market created, can be of economical benefit to industry as well as provide a stepping stone to further interest in the electronic field. There is a great need in the United States for electronic technicians. A Simplified license to promote interest in the communication field will start a large group pursuing electronics as a possible livelihood and create the technical pool of interest to the nation. This possibility has already been proven by the great number of license applications under part 19.

(Continued)

4. With the above mentioned in mind, International Crystal MFG. Co. Inc. does petition and request that the Commission create a new class of license under Part 12 known as the Hobby License. It is suggested that the rules covering this license include the following as well as other items deemed necessary by the Commission.

(A) Hobby Class. Those amateur privileges as designated and limited as follows:

- (1) The d. c. plate power input to the final vacuum tube or transistor supplying power to the antenna shall not exceed 10 watts.
- (2) Only the following frequencies in megacycles types of emission may be used.
  - (I) Radiotelegraph A1 - 29.405, 29.410  
20.415, 29.420, 29.425, and 29.430
  - (II) Radiotelephone A3 - 29.435, 29.445  
29.455, 29.465, 29.475, 29.485,  
29.495, 29.505, 29.515, 29.525,  
29.535, 29.545, 29.555, 29.565.  
29.575, 29.585, and 29.595.
- (3) Only type accepted equipment may be operated under this class of license. Such equipment shall include the following standards.
  - (I) Crystal controlled having a stability of plus or minus .005% 0° to 125° F
  - (II) Speech limiting circuits to prevent loss of carrier on negative modulation peaks.
  - (III) Frequency response of the transmitter at 4000 cps shall be 20 db below the 1000 cps level. Carrier distortion maximum 25 %.
- (B) Examination - No examination would be required to obtain the Hobby Class License. The license to be obtained upon application to the Commission.
- (C) License Renewal - The Hobby Class License to be renewed each five years.
- (D) Both operators and station license to be issued as one and usable anywhere within the United States. The license to be good for operation only of Hobby Class equipment.
- (E) Unless specifically stated all other rules of Part 12 Amateur Radio service would apply to the Hobby Class License.

5. International Crystal Manufacturing Co., Inc. urges the Commission to consider the addition of the above class license and feels that such a step will serve the national interest.

Respectfully submitted

International Crystal MFG. Co. Inc.

R. R. Freedland, President

SUBSCRIBED AND SWORN TO before me  
this \_\_\_\_\_ day of \_\_\_\_\_ 1963

Notary Public



## RADIO ASTRONOMY

Three centuries have passed since Galileo saw the moons of Jupiter and the crescent of Venus, and although telescopes have been vastly improved since that time, the best lenses and mirrors still rely on visible light. Now a new view of the universe is on display through the science of radio astronomy.

Radio astronomy is only 30 years old, yet new discoveries are recorded almost every day.

In 1932, Karl Jansky, a telephone physicist was studying the crackling static that can be annoying in radio communications. During the periods when no lightning flashes were in the atmosphere, a faint hiss still sounded in his receiver. This hiss seemed to rise and fall as the earth turned. Studying this phenomenon carefully, Jansky found that it reached maximum strength 4 minutes earlier each day, a fact which seemed significant. The sidereal day, which measures the earth's rotation in respect to the stars is 4 minutes shorter than the 24 hour solar day, hence Jansky came to the conclusion that the hiss was radio waves from beyond the sun. A radio amateur, Grote Reber of Illinois alone followed up Jansky's lead. He built a 31 foot dish antenna in his backyard and with it discovered that the sky was full of radio stars which had nothing to do with ordinary stars. The world's first radio telescope opened up a new sky—now the radio sights which have become visible would fill the world's largest book, but radio astronomy is growing so fast that it will be many years before such a book is ever written.

\* \* \* \* \*

## SPACE COMMUNICATIONS

General Electric has developed a TV camera that will transmit a picture in 1/1,000,000 of a foot candle power of light. Designed and tested for use by aircraft at night, this camera has transmitted pictures of objects at 25,000 feet. (Observers could detect only 8,000 feet).

-----  
Mariner II our Venusian probe has indicated that "solar winds", streams of hot ionized gas from the sun, appear to be blowing continually and have sufficient energy to drag or push aside magnetic fields.

\* \* \* \* \*

## NEW PRODUCTS

General Radiotelephone Co., Burbank, California, announces a ten meter Sideband Adapter and AM Linear Amplifier in one package. Delivers 50 watts P.E.P. on SSB and 25 P.E.P. on AM with 3 watts of drive. The unit is priced at \$99.95 and was developed for ten meters from CB equipment.

\* \* \* \* \*

## PUBLICITY

The "Kass Kommunikator" for December-January featured an article about Phil-Mont written by W3CDY. The same publication also notes that two Phil-Mont members, K3NYN and W3APD are the instructors at Drexel Hill Jr. High School and Lower Merion High School for 10 week courses in Amateur Radio.

The "Kommunikator" is the work of still another Phil-Mont member, W3FLP.

\* \* \* \* \*

## CHANNEL CHATTER

Wayne Ziegler, an associate member, now holds the call WN2GBJ-Congratulations! ---K3HWX, W3VCE, & K3KDP took part in a sports car rally on January 27-none of them were winners, but they had a lot of fun---K3KUD is off to Turkey again during March with W3ZPP and WN2GBJ to follow in May(who's minding the store?pr.)---W3LEM's precise direction to W3JYA/m and the equally precise QSL of the same, resulting in fifteen minutes of travel back and forth over the same two blocks of highway by JYA---K3NUC is trying to get his equipment back from W5HDY who is in Texas---W3PST hungrily looking over the goodies at the February meeting-going back on the air, Woody?---Just in case anyone wonders, the Blurb is being folded and mailed these days by W3's QQH,VVS,YHV,GIF,LEM,MHR,& K3's GNM & KUD---K3DJE has added 6-meters to his repertoire---W3ZPP back home again after his second trip to Florida in about four weeks---W3ZN signing up with Navy MARS-Welcome aboard---The sonic boom on February 10, just before net time had the North END all "shookup"---An occasional visitor to Channel 1 these days is W3BPM. Herb is President of the North Penn Club this year(W3ZXV please copy)---W3HFD finding out what a fine location the Abington High School area is for mobile reception while picking up his daughter---W3QQH attending the orientation period at the Abington CD Headquarters. Jim learned all about the gear that he built and installed!---W3EQV's modulation sounds pretty good these days.---That's it for this month.

\* \* \* \* \*

## LETTERS TO THE EDITOR

This month quite a lengthy letter was received from Lloyd, W3CDY, in which he expressed his views on the proposed changes to the By-Laws. Space limitations do not permit our using all of it in this issue, but the following items are excerpts:

"The purpose of my letter is to present the conclusions I have reached in regards to any changes in the Constitution. It is intended to provide food for thought and not argument. .... It seems to me that our present considerations of changes in the Constitution (sic) fall into the category of specifics. The changes under consideration are pointed in their purpose. Do these things really belong in our Constitution and strengthen it? .... There is little doubt that a meeting for programs and social activities would be well attended. This is valuable for the survival of this or any club, however secondary is the handling of necessary club business.

The second or business meeting would be an entirely different matter. For the conduct of business at large by the membership, a problem of the quorum must be met. With the activity at a level we enjoy, our second meeting will have to be held at a place or places that will be able to accommodate a quorum plus additional members who indicate their desire to attend. When we meet at a place that can accommodate this second meeting we lose that friendliness of our present mid-month and it develops into hard and cold business. Consequently, attendance will fall below the quorum level and no business can be conducted."

I trust that the above will in fact provide some food for thought and that we have presented enough of Lloyd's letter to do it justice. Ed.

In another letter, a question was asked:

"Should we pursue the possibility of a memorial station to our 1st President, Leroy Hauser, ex-W3PMD? A small investigation is under way, (1) it has not been reissued as yet, (2) the PM in the call sign is almost a natural for Phil-Mont something, what do YOU think? Should we have or do we need a referendum?

\* \* \* \* \*

## SWAP 'N' SHOP

FOR SALE Dow-Key TR switch \$7.00  
ARC-5, 7-9.1 Mcs. transmitter(for VFO) 10.00  
New chest mike (carbon) w/switch 1.95  
Collins 2-18 Mcs. TDH exciter w/instr. book 40.00  
" ART-13 (plug-in) frequency standard -200 kc. 8.00  
600v 200ma heavy-duty power supply, w/866's rect. 20.00  
MasterMobile heavy-duty stainless steel spring mount 7.00  
contact W3AK

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FOR SALE Mahharlund HQ-129-X rcvr, like new, product detector  
added for SSB reception, S-meter changed to function  
on all modes, muting circuit changed to allow hi-freq.  
oscillator to remain on at all times; fast, medium and  
slow AVC circuits. contact W3AJO \$125.00  
ph. MI-2-6508  
-----

FOR SALE Perfect NC300 w/xtal calib. contact W3VCY, ph. TR-4-8398  
-----

FOR SALE Lafayette AM-FM-Stereo, Model KT-500 - W3KDO \$50.00  
-----

FOR SALE Tape Deck, Fentone(English), less record amplifier and mike  
\$20.00

Tape recorder, Wollensak T-1515-4, two or four track, stereo,  
playback, monaural record, complete w/accessory cords, mike,  
vinyl carrying case, four rolls of pre-recorded stereo tape,  
two rolls of 2400' blank tape, reg. net \$200.00, asking 135.00  
Fisher FM 80, fm tuner less cabinet 35.00  
Heath FM3A, fm tuner, needs alignment 15.00  
" Sixer, new, w/meter & xtal(50.82Mcs.) 40.00  
12 volt dynamotor & relay, 500 v., @200 mils, mounted  
ready-to-use 15.00  
Air-conditioner, 230 v. 3/4 hp. 30.00  
Springfield semi-automatic .22 cal. rifle, used 20.00  
contact w3vsd on ch. 1 or GE 8 9833 until 5pm

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### CD REPORT

W3UMK, W3QV, W3AHZ(EC), W3UZF, K3EZJ, and Mike Scanlon, Deputy  
County Civil Defense Director for Montgomery County met recently to dis-  
cuss the overall planning of the County's RACES program. W3UZF reported  
on the plans for Abington Township's mammoth radiological test exercise on  
Feb. 13. K3EZJ reports that Lower Merion and Sector One have started a  
6-meter net on 50.4 Mcs. at 2030 hours on Thursdays. Abington Township  
certainly has a nice looking and effective RACES operating position now,  
In the very near future, the Blurb will feature a Montgomery County map  
with the various sectors and related CD information noted thereon.

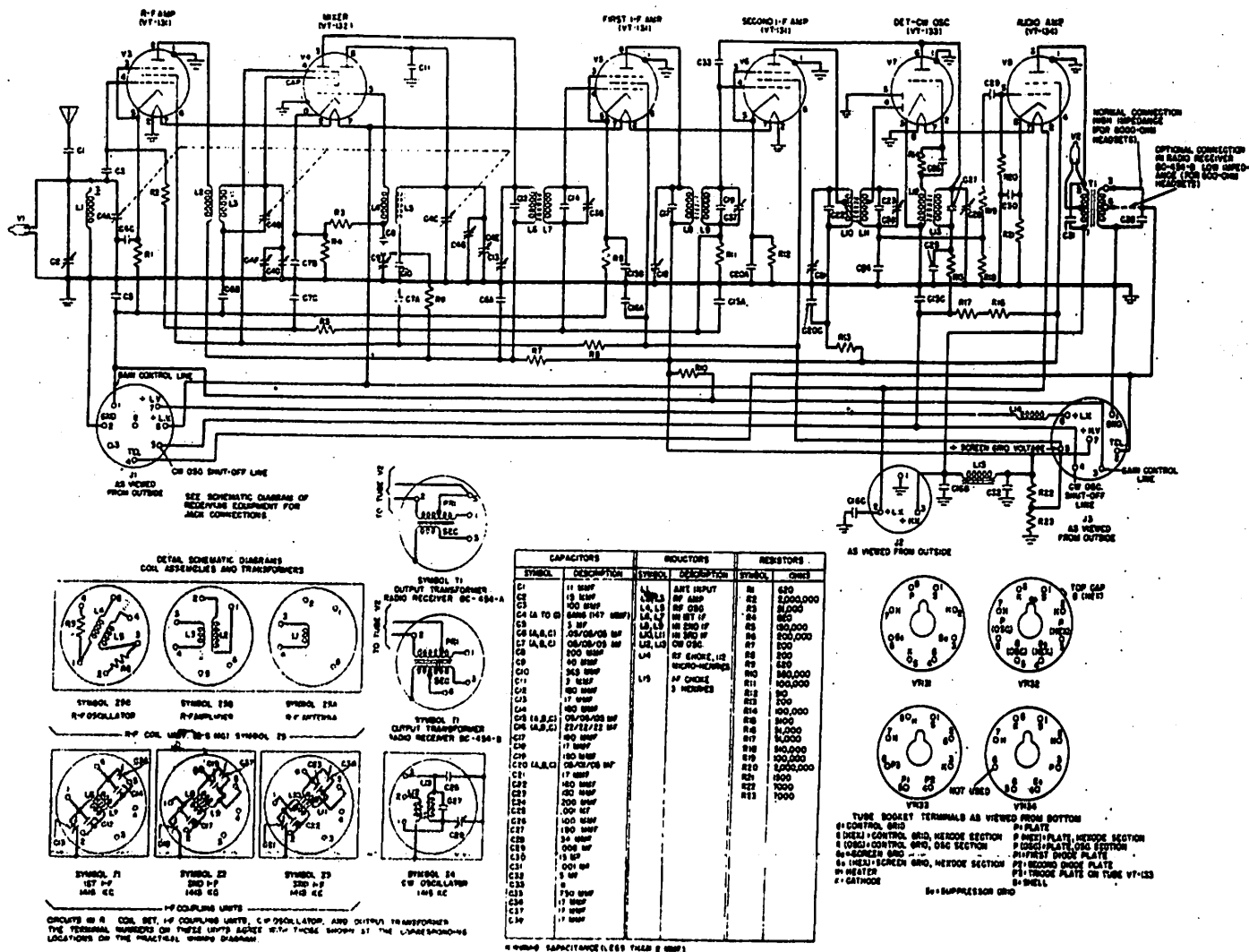
de W3UMK

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# PHILMONT TEK-NI-GRAM

CONTRIBUTED BY-VARIOUS & SUNDRY PARTIES

MARCH 1963



THE SCHEMATIC SHOWN ABOVE IS REPRESENTATIVE OF THE ARC-5 SERIES OF RECEIVERS, WHICH, AFTER MODIFICATION, HAVE PROVED THEIR WORTH AS BROAD-BANDED, SINGLE CHANNEL MONITORS. THIS TEK-NI-GRAM IS THE FIRST OF A SERIES WHICH WILL SHOW SPECIFIC MODIFICATIONS TO THE BASIC ARC-5 AND HOW THE ADDITIONAL EQUIPMENTS (CONVERTER, SQUELCH, ETC.) ARE INTEGRATED INTO THE FINAL PACKAGE.

RADIO RECEIVER BC-454-A (OR -B) (3-6 MC) SCHEMATIC